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Notice of Allowability

Application No.

09/884,730

Examiner

Jeffrey C. Pwu

Applicant(s)

NELSON ET AL.

Art Unit

2143

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 2/15/05 Amendment, 6/16/05 Election, and 10/6/05 Interview.
2. ☒ The allowed claim(s) is/are 2-14, 16-22 and 24.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date Attached
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


JEFFREY PWU
PRIMARY EXAMINER

DETAILED ACTION

Election/Restrictions

1. This application is in condition for allowance except for the presence of claim 1 to Group I non-elected without traverse. Accordingly, claim 1 has been cancelled.

Allowable Subject Matter

2. Claims 2-14, 16-22, and 24 are allowed.

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with William Curry on October 5, 2005.

4. Claims 1, 15, and 23 have been canceled.

5. Claims 16-20 have been amended as follow:

Claim 16. (Currently amended) The method of claim ~~45~~ 2, wherein said data communication server includes software architecture including software functional layers, the layers including a system resources layer, a system services layer, an application programming interface layer, and an application layer, and the application programming interface layer including components representable by objects for providing communication services with each object including a communicator, a receptor, and service logic.

Claim 17. (Currently amended) The method of claim ~~45~~ 2, wherein said steps of transmitting and receiving includes providing packet handling services, the packet handling services including a radio data bridge across the radio communication path, via a data link layer of a protocol stack, the radio data bridge including end-to-end error correction and end-to-end packet sequencing; and
the radio data bridge including either of a half-rate, full-rate, or combination of half-rate and full-rate channels across the radio communication path.

Claim 18. (Currently amended) The method of claim ~~45~~ 2, further comprising:
assigning a pre-determined IP address to the first ground station; and
allowing access to said transmitted and received information only for pre-determined users of said IP address.

Claim 19. (Currently amended) The method of claim ~~45~~ 18, further comprising:
performing authentication procedures, using a remote access dial-up service to a ground server, on users before allowing access to said transmitted and received information only for pre-determined users of said IP address; and
securing said transmitted and received user information from unauthorized access using a secure socket layer protocol.

Claim 20. (Currently amended) The method of claim ~~45~~ 18, further comprising:
performing authentication procedures, using a remote access dial-up service to a
ground server, on users before allowing access to said transmitted and received
information only for pre-determined users of said IP address; and
securing said transmitted and received user information from unauthorized access using
a PGP security protocol;

said step of securing including the steps of:

- creating a digital signature by generating a hashing code of the user information to
be transmitted;
- encrypting the code with the user's private key;
- encrypting the user information using a randomly created session key; and
- encrypting the session key using the public key of a recipient of the user information.

6. Any inquiry concerning this communication or earlier communications from the
examiner should be directed to Jeffrey C. Pwu whose telephone number is 571-272-
6798.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's
supervisor, David Wiley can be reached on 571-272-3923. The fax phone number for
the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



10/6/05

JEFFREY P. WU
PRIMARY EXAMINER